

DOVE.
SPECULUM ANNI
OR AN
ALMANACK

For the Year of our
LORD GOD

1689.

Being the first after Bissextile or Leap-
year, and from the worlds Creation 5692.

Wherein is contained the principal Aspects of
the Planets, Eclipses, Terms, both at London
and Cambridge, Inclination of the Air,
with other things of note.

Calculated properly for the famous
University and Town of Cambridge where
the North Pole is elevated above the
Horizon 53 degr. and 12 min

But may indifferently serve for any place within
this Kingdom.

Non nobis solum nati sumus.

CAMBRIDGE,

Printed by John Hayes, Printer to the
University, 1689.

The vulgar Notes and moveable Feasts for this
Year 1689. in both Accounts, viz.

Julian or
English.

Gregorian or
Foreign.

18	The Golden Number	18	
7	The Dominical Letter	13	
18	The Epact	8	
18	The Cycle of the Sun	18	
Feb. 10	Shrove-sunday	Febr. 20	
March 31	Easter-day	April 10	
May 9	Ascension-day	May 19	
May 19	Whitsunday	May 29	
Decemb. 8	Advent-sunday	Novemb. 27	

A Table of the Terms with their Returns.

Hilary Term begins January 23, and ends February 12, and hath 4 returns, viz.	{	Octab. Hilary. Jan. 21
		Quind. Hilary. Jan. 27
		Craft. Purif. Febr. 4
		Octab. Purif. Febr. 9
Easter Term begins April 17, ends May 23, and hath 5 returns, viz.	{	Quind. Pasch. Apr. 15
		Tres Pasch. Apr. 22
		Mens. Pasch. Apr. 29
		Quinq. Pasch. May 6
		Craft. Ascen. May 10
Trinity Term begins May 31, and ends June 19, and hath 4 returns, viz.	{	Craft. Trin. May 27
		Octab. Trin. June 3
		Quind. Trin. June 10
		Tres Trin. June 17
Michaelmas Term begins October 23, ends November 28, and hath 6 returns, viz.	{	Tres Mich. Octob. 21
		Mens. Mich. Octob. 29
		Craft. anim. Nov. 4
		Craft. Mart. Nov. 12
		Octab. Mart. Nov. 18
		Quind. Mart. Nov. 25

The

Drue 1689.

The Scarlet days in the Univerſity of Cambridge, are as followeth.

All Saints, Chriſtmas, Eaſter, Aſcenſion, Whitſunday.
Trinity-Lunday, Commencement, and the 29 of May;
At the two Fairs proclaiming in June and September,
The Feaſt of Saint Michael, and the 5 of November,
To Funerals, Clergymen and Supplications,
All Doctors go as to Congregations;

Thanks in their Robes.

Marriage comes in on the 13 day of January, and at Septuageſima Sunday it is out again until Lowſunday, at which time it comes in again, & goes not out till Rogation-Lunday: thence it is forbidden until Trinity-Lunday: from whence it is unforbidden till Advent-Lunday: but then it goes out, and comes not in again till the 13 day of January next following.

The Names, and Characters of the 12 Signs, with the parts of mans Body which they are ſaid to govern.

♈ Aries head and Face	♎ Libra Reins & Loyaſ
♉ Taurus neck and Throat	♏ Scorpio Secret members.
♊ Gemini Arms & Shoul.	♐ Sagittarius the Thighs.
♋ Cancer Breaſt & Stom.	♑ Capricornus the Knees.
♌ Leo Heart and Back	♒ Aquarius the Legs.
♍ Virgo Bowels and Belly	♓ Piſces the Feet.

☿ Note that the bright Planet *Venus*, will be our glorious Evening Star, from the beginning of the year to the 13 day of June; and then making her Conjunction with the Sun. She becomes Oriental, and our glorious Morning Star to the end of the year.

Dove 1689.

A brief Concordance of Years with some memorable things
since the beginning of the Reign of Queen Elizabeth.

Anno ^m Dom.	An. Re.	(M) C	
1558	1	131	A Parliament called.
1559	2	130	Monasteries suppressed.
1560	3	129	Wars with Scots and French.
1561	4	128	Paul's Church-Steeple burnt.
1562	5	127	Tempest and Earthquake.
1563	6	126	20000 died of the Plague in London.
1564	7	125	Thames frozen.
1565	8	124	Peace with France.
1566	9	123	King James born.
1567	10	122	Royal Exchange finished.
1568	11	121	A dry Summer.
1569	12	120	Rebellion in the North.
1570	13	119	Wars with Scotland.
1571	14	118	Earthquake in Herefordshire.
1572	15	117	Massacre in France.
1573	16	116	Earl of Essex goes to Ireland.
1574	17	115	Conjuring Spirits punished.
1575	18	114	An Earthquake.
1576	19	113	Forbisher's North Voyage.
1577	20	112	Infection at Oxford Assizes.
1578	21	111	A great Snow.
1579	22	110	A curious Lock Smith.
1580	23	109	Great Earthquake and B'azing Scar.
1581	24	108	Three Jesuits executed.
1582	25	107	New Calendar began.
1583	26	106	Earthquake in Dorsetshire.
1584	27	105	Nantwich burnt.
1585	28	104	Tobacco first used in England.
1586	29	103	Ludgate new built.
1587	30	102	Blackwell Hall new built.

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1588	31	101	Spain's Armado overthrown.
1589	32	102	Duke of Guise murdered.
1590	33	99	Blasphemous Hackett hanged.
1591	34	98	East-India Company began.
1592	35	97	The Thames almost dry.
1593	36	96	10636 died of the Plague in London.
1594	37	95	Great Tempest.
1595	38	94	Scarcity of Corn.
1596	39	93	Earl of Essex takes Cadix in Spain.
1597	40	92	Wheat 13 Shillings a Bushel.
1598	41	91	Great Tempests and Frost.
1599	42	90	Earl of Essex goes to Ireland.
1600	43	89	Embassadors from Russia and Barbary.
1601	44	88	Earl of Essex beheaded.
1602	45	87	Queen Elizabeth dieth at Richmond.
1603	1	86	K. James I. began March 24. 1622.
1604	2	85	30578 die of the Plague in London.
1605	3	84	Peace with Spain.
1606	4	83	Powder Plot.
1607	5	82	King of Denmark came to England.
1608	6	81	Moore-fields beautified.
1609	7	80	Oath of Allegiance.
1610	8	79	New Exchange in the Strand.
1611	9	78	King of France murdered.
1612	10	77	Bartholomew Legat an Arian burnt.
1613	11	76	Lady Eliiz. married. Prince Henry dies.
1614	12	75	Artillery Company revived.
1615	13	74	Middleton's Water.
1616	14	73	Smithfield paved.
1617	15	72	Charles created Prince of Wales.
1618	16	71	Hailock the Sleeping Preacher.
1619	17	70	S ^r Walter Raleigh decollated.
1620	18	69	Queen Anne dies.
1621	19	68	King of Bohemia overthrown.
			Philip 3 K. of Spain dies, Phil. 4. succ.
			Prince

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1682	10	67	Prince Charles goes into Spain.
1623	21	66	Black Friars downfall.
1614	22	65	The Bloody Cruelty at Amboyna.
1621	K. Char.	I. beg Mar. 27. 54269. die. Pl. 35417.	
1626	2	63	War with Spain and France.
1617	3	62	Isle of Rhos Voyage.
1628	4	61	Duke of Buckingham slabb'd.
1627	5	60	New England planted.
1630	6	59	King Charles II. born.
1631	7	58	Battle at L. Tilly slain.
1632	8	57	London Bridge burnt
1633	9	56	James II. born Octob. 14.
1634	10	55	Ship Money first Taxed.
1635	11	54	Old Parr died aged 160.
1636	12	53	Dutch take the Spanish Silver Fleet.
1637	13	52	English Liturgy sent into Scotland.
1638	14	51	The Scots National Covenant.
1639	15	50	Dutch beat the Spaniards at Dover.
1640	16	49	The long Parliament began Nov. 3.
1641	17	48	The Earl of Strafford beheaded.
1642	18	47	Edge Hill Fight.
1643	19	46	Newberry first Fight.
1644	20	45	Newberry second Fight.
1645	21	44	Arch-Bishop of Canterbury beheaded.
1646	22	43	Lord Fairfax takes Oxford.
1647	23	42	King taken by Parliament and Army.
1648	24	41	King traiterously beheaded. K. Charles the Second begins Jan. 30.
1649	I	40	Powder-blow in Tower-street.
1650	2	39	King Charles II. Crowned in Scotland.
1651	3	38	Worcester Fight. Love beheaded.
1652	4	37	Wars with Holland.
1653	5	36	Old and New Parliament dissolved.
1654	6	35	Peace with Holland.

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1655	7	34	Wars with <i>Spaia</i> .
1656	8	33	Two Tides in 3 hours. Octob. 3.
1657	9	32	<i>Maritie</i> taken by the <i>Engl^{ish} & French</i> .
1658	10	31	<i>Cromwell</i> died.
1659	11	30	<i>St George Boub</i> & Gen. <i>Mont</i> for the King.
1660	12	29	King <i>Charles II.</i> joyfully restored.
1661	13	28	King <i>Charles II.</i> Crowned, April 23.
1662	14	27	Married to Queen <i>Katherine</i> .
1663	15	26	King and Queen at <i>Windsor</i> .
1664	16	25	Three blazing Stars seen.
1665	17	24	97351 die, of the Plague 68586.
1666	18	23	13200 Houses burnt in <i>London</i> .
1667	19	22	The <i>Dutch</i> Hostile Treaty.
1667	19	22	E. of <i>Clarendon</i> banish. <i>Mr. Cowley</i> died.
1669	21	20	Prince of <i>Tuscany</i> arrived in <i>England</i> .
1670	22	19	<i>Dutchels</i> of <i>Orleanes</i> died.
1671	23	18	<i>Dutch.</i> of <i>Tork</i> & E. of <i>Manchester</i> died.
1672	24	17	War proclaimed with <i>Holland</i> by <i>Engl^{ish}</i> and <i>French</i> . Earl of <i>Sandwich</i> slain.
1673	25	16	<i>Sr Edward Spagg</i> slain at <i>Sea</i> .
1676	28	13	600 Houses burnt in <i>Somerset</i> .
1677	29	12	Prince of <i>Orange</i> married to the <i>L. Mary</i>
1678	30	11	<i>Sr Edmund.</i> <i>Bury Godfrey</i> murdered.
1680	32	9	A great Comet.
1682	34	7	Another Comet.
1684	36	6	A great 13 weeks frost, with a Fair kept upon the frozen <i>Thames</i> .
1685	K. James the II.	began Febr. 6.	The King and Queen Crowned April 23.
	1	4	<i>Monmouth</i> Landed at <i>Lime</i> . Jane 11.
	1	4	<i>Monmouth</i> defeated near <i>Bridgew.</i> Jul. 6
	1	4	<i>Monmouth</i> beheaded, July 15.

January hath xxxi days,

Last quarter the 3 day, 5 min. past 1 after noon.

New moon the 11 day, 11 min. past 10 before noon.

First quarter the 18 day, 27 min. past 8 in the morn.

Full moon the 25 day, 13 min. past 10 before noon.

1	a	Circumcision	22	9	Virgo	29	Fine mild
2	b	Octab. Steph.	23	10	Libra	11	weather.
3	c	Octab. John.	24	11		23	D ☽.
4	d	Octab. Innoc.	25	12	Scorp.	5	☿ h ☿.
5	e	Timon	26	14		17	☿ h ☿.
6	f	Epiphany	27	15		29	D Apogon.
7	g	Julian	28	16	Sagitt.	11	Cold with
8	a	Erhardus	29	17		23	frost and
9	b	Sun in Aquar.	0	18	Capr.	6	snow.
10	c	Paul Erem.	1	19		19	
11	d	Virginus	2	20	Aquar.	3	△ h ☿.
12	e	Gregorius	3	22		17	
13	f	1 aft. Epiph.	4	23	Pisces	0	
14	g	Helix	5	24		14	☿ ☽ h.
15	a	Marice	6	25		28	
16	b	Marcellus	7	26	Aries	13	D ☽.
17	c	Anthony	8	27		27	☿ ☽ ☿.
18	d	Hyacinth	9	28	Taur.	11	More snow
19	e	Donation	10	29		25	D Perigon.
20	f	2 aft. Epiph.	11	30	Gem.	9	but not very
21	g	Octab. Hilar.	12	31		23	cold towards
22	a	Vincent	13	31	Canc.	7	the end.
23	b	Terentius	14	32		20	
24	c	Timothy	15	33	Leo	4	☿ h ☿.
25	d	Conv. S. Paul	16	34		17	
26	e	Polycarpus	17	35	Virg.	0	
27	f	Septuagesima	18	36		13	☿ ☿ ☿.
28	g	Quind. Hilar.	19	36		25	☿ ☿ ☿.
29	a	Carolus	20	37	Libra	7	D ☽.
30	b	K. Ch. & Mart.	21	38		19	
31	c	Virgilius	22	39	Scorp.	1	D Apogon.

We suffer day continual, and the snow
 Makes a little night become noon day now.
 We hear of some incrystal'd, such as have
 That which procur'd their death become their grave.

January 1689.

Cambridge Term begins the 14.
 day.

	Sun-setting.												Sun-rising.											
1	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
2	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
3	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
4	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
5	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
6	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
7	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
8	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
9	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
10	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
11	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
12	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
13	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
14	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
15	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
16	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
17	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
18	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
19	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
20	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
21	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
22	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
23	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
24	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
25	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
26	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
27	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
28	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
29	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
30	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5
31	8	8	8	8	7	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7	7	7	6	5

February hath xxviii da

Last quarter the 2 day, at 11 beforenoon.

New moon the 9 day, 22 min. past 11 at night.

First quarter the 16 day, 42 min. past 3 afternoon.

Full moon the 24 day, 13 min. past 2 in the morn.

M.D.	W.D.	Festival days wch terms.	☉ place d. m.	Moons place.	Inclination of the Air.
1	D	Shrove fast	21 39	Scorp. 13	
2	C	Purification	24 40	25	
3	B	Sexagesima	25 40	Sagit. 7	High winds
4	B	Cra. Purif.	26 41	19	but mild for
5	A	Agatha	27 42	Capr. 1	the season.
6	B	K. James's day	28 42	14	
7	C	Zachary	29 42	27	♂ ☉ ♀.
8	D	Fun in Pisces	☉ 43	Aquar. 11	
9	E	Olab. Purif.	1 43	25	Very under-
10	A	shrove-sund.	2 44	Pisces 9	cain weather.
11	B	Supper	3 44	24	△ ♄ ♀.
12	A	Term ends	4 44	Aries 8	
13	B	Ash wednesd.	5 45	23	♂ ♄.
14	C	Valentine	6 45	Taur. 7	△ ☉ ♄.
15	D	Faustine	7 45	22	
16	E	Juliana	8 45	Gem. 6	♂ Perigee.
17	A	Quadragesim.	9 45	19	Cold and
18	B	Concordia	10 46	Canc. 3	slabby.
19	A	Sabine	11 45	17	
20	B	Ember week	12 46	Leo 0	* ☉ ♂.
21	C	Estas	13 45	13	
22	D	Cathedr. Pet.	14 46	26	Frosty with
23	E	Mercurius fast	15 46	Virgo 9	snow.
24	A	S. Matthias	16 46	21	
25	B	Agost	17 46	Libr. 3	
26	A	Pestor	18 46	15	♂ ♀.
27	B	Fortuna	19 45	27	
28	C	Agacar.	20 45	Scorp. 9	♂ Apogee.

Now toward us *Sat's* Charlot's driving.
 Whose warmer rays cause by reflection
 Things which seem'd dead to be reviving
 Retrograde plants bring to direction.

1	7	14	4	46
2	7	12	4	48
3	7	10	4	50
4	7	8	4	52
5	7	6	4	54
6	7	4	4	56
7	7	2	4	58
8	7	0	5	0
9	6	58	5	2
10	6	56	5	4
11	6	54	5	6
12	6	52	5	8
13	6	50	5	10
14	6	48	5	12
15	6	46	5	14
16	6	44	5	16
17	6	42	5	18
18	6	40	5	20
19	6	38	5	22
20	6	36	5	24
21	6	34	5	26
22	6	32	5	28
23	6	30	5	30
24	6	28	5	32
25	6	26	5	34
26	6	24	5	36
27	6	22	5	38
28	6	20	5	40

February 1689.

Commencement for Dutchebours
 in Arts the 14 day.

March hath xxxi days.

Last quarter the 4 day, 9 min. past 10 in the morn.
 New moon the 11 day, 58 min. past 9 before noon.
 First quarter the 18 day, 18 min. past 12 in the morn.
 Full moon the 25 day, 5 min. past 6 at night.

1	D	Dominic Bish.	21	45	Scorp.	21	
2	E	Chad Bish.	22	45	Sagit.	3	♂ h ♀.
3	F	3 sun. in Lent	23	45		15	Windy with
4	G	Idian	24	44		27	cold rain or
5	A	Eusebius	25	44	Capr.	7	snow.
6	B	Frederick	26	43		22	
7	C	Felicitas	27	43	Aquar.	5	
8	D	Cyprian	28	42		19	
9	E	Prudent.	29	42	Pisc.	3	Boisterous
10		Midlent Sun	0	41		18	weather.
11	G	Conibert	1	41	Aries	3	D ♀.
12	A	Gregory	2	40		17	
13	B	Ernestus	3	40	Taur.	2	
14	C	Eutychus	4	39		17	D Perigee.
15	D	Longinus	5	38	Gem.	2	Cold gloomy
16	E	Boniface	6	37		16	weather.
17	F	5 sun. in Lent	7	36	Canc.	0	□ ♀.
18	G	Gabriel	8	35		14	
19	A	Joseph	9	35		27	
20	B	Rupert	10	34	Leo	1	Tempestuous
21	C	Benedic	11	33		23	but mild.
22	D	Paulinus	12	32	Virgo	5	□ h♂.♂♀.
23	E	Theodore fast	13	31		18	
24	F	Palm Sunday	14	30	Libra	0	D ♀.
25	G	Lady day	15	29		12	
26	A	Castulus	16	27		24	
27	B	Oribald	17	26	Scorp.	6	* ♂ ♀:
28	C	Sidon	18	25		18	D Apogee.
29	D	Good Friday	19	24		29	
30	E	Quido fast	20	23	Sagit.	11	
31	F	Easter day	21	21		23	* ♀ ♀.

The great and brightest Torch of Heaven,
 Now with his rays warms *Flora's* lap:
 Making the days and nights both even
 Cheering the plants with fresher sap.

1	6	18	5	42
2	6	16	5	44
3	6	14	5	46
4	6	12	5	48
5	6	10	5	50
6	6	8	5	52
7	6	6	5	54
8	6	4	5	56
9	6	2	5	58
10	6	0	6	0
11	5	58	6	2
12	5	56	6	4
13	5	54	6	6
14	5	52	6	8
15	5	50	6	10
16	5	48	6	12
17	5	46	6	14
18	5	44	6	16
19	5	42	6	18
20	5	40	6	20
21	5	38	6	22
22	5	36	6	24
23	5	34	6	26
24	5	32	6	28
25	5	30	6	30
26	5	28	6	32
27	5	26	6	34
28	5	24	6	36
29	5	22	6	38
30	5	20	6	40
31	5	18	6	42

Sun-setting.

Sun-rising.

March 1689.

The latter Act the 14 day.

Cambridge Term ends the 24 day.

April hath xxx days.

Last quarter the 1 day, 31 min. past 9 at night.
 New moon the 9 day, 33 min. past 6 at night.
 First quarter the 16 day, 43 min. past 10 before noon.
 Full moon the 24 day. 1 min. past 11 before noon.

1	B	Conv. 20. 20.	22	30	Capr.	6	
2	a	Mary Egypt	23	18		18	Fine mild
3	b	Christian	24	17	Aquar.	1	weather.
4	c	Ambrose	25	15		14	* ☉ ♀.
5	d	Vincent	26	14		28	
6	e	Sistus	27	13	Pisces	11	
7	f	Low Sunday	28	11		26	
8	B	Dionysius	29	9	Aries	11	☿ ♀.
9	a	Sun in Taurus	30	8		26	
10	b	Ezechiel	1	6	Taur.	11	☿ Perigron.
11	c	Leo Pap.	2	4		26	
12	d	Julius	3	3	Gem.	11	☿ ☉ h.
13	e	Justinus	4	1		26	Cold and
14	f	2 after Easter	4	59	Cane.	10	cloudy.
15	B	Quind. Pasch.	5	57		24	
16	a	Isidore	6	55	Leo	7	
17	b	Term begins	7	54		20	Much rain
18	c	Spollin.	8	52	Virgo	2	now.
19	d	Timothy	9	50		15	☉ ♂ ♀.
20	e	Sulpitius	10	48		27	
21	f	3 after Easter	11	46	Libr.	9	☿ ☉.
22	B	Tres Pasch.	12	44		21	
23	a	S. Geron	13	42	Scorp.	3	☿ Apogron.
24	b	Alberus	14	40		14	☿ ♀.
25	c	S. Mark Evan.	15	37		26	☿ ♀.
26	d	Cleins	16	35	Sagit.	8	Windy and
27	e	Anastas	17	33		20	turbulent.
28	f	4 after Easter	18	31	Capr.	2	
29	B	Mens. Pasch.	19	29		15	☿ h ♀.
30	a	Josua	20	26		27	☿ h ♂ ♀.

Each creature now enjoys the other,
 In passing happy days and hours :
 And one bird sings unto another,
 In the fall of Christal showers.

April 1689.

Cambridge Term begins the 10
 day.

1	5	16	6	44
2	5	14	6	45
3	5	12	6	48
4	5	10	6	50
5	5	8	6	52
6	5	6	6	54
7	5	4	6	56
8	5	2	6	58
9	5	0	7	0
10	4	58	7	2
11	4	56	7	4
12	4	54	7	6
13	4	52	7	8
14	4	50	7	10
15	4	48	7	12
16	4	46	7	14
17	4	45	7	15
18	4	43	7	17
19	4	41	7	19
20	4	39	7	21
21	4	38	7	22
22	4	36	7	24
23	4	34	7	26
24	4	33	7	27
25	4	31	7	29
26	4	30	7	30
27	4	28	7	32
28	4	26	7	34
29	4	25	7	35
30	4	23	7	37

May hath xxxi days.

Last quarter the 2 day, 27 min. past 10 beforenoon.
 New moon the 9 day, 35 min. past 1 in the morning.
 First quarter the 15 day, 12 min. past 11 at night.
 Full moon the 24 day, 20 min. past 2 in the morning.
 Last quarter the 31 day, 41 min. past 7 at night.

1	b	Phil. & James	21	24	Aquar.	10	Cold and
2	c	Athenasius	22	21		23	* ♀ ♀.
3	d	Invent. Cruch	23	19	Pisces	6	♂ h ♀.
4	e	Floian	24	17		20	moilt.
5	f	Rogation Sun.	25	15	Aries	4	Δ ♂ ♀.
6	g	Joh. port. L.	26	12		19	* ♀ ♀.
7	a	Joh. of Brv.	27	10	Taur.	4	* ♂ ♀.
8	b	Stanislaus	28	7		19	Windy and
9	c	Alcen. Dom.	29	5	Gem.	5	dry.
10	d	Sun in Gem.	OUT	2		20	☉ ☉ ♀.
11	e	Christian	0	59	Canc.	5	
12	f	6 after Easter	1	57		19	Very good
13	g	Term ends	2	55	Leo	3	weather
14	a	Feodina	3	52		16	now.
15	b	Sophia	4	50		19	
16	c	Peregrin	5	47	Virgo	11	
17	d	Jobocus	6	44		24	
18	e	Tenant. falc	7	42	Libra	6	Δ h ♀.
19	f	Whit-sunday	8	39		18	☉ ♀.
20	g	Trans. Fer.	9	36		29	☉ ♀ ♀.
21	a	Julien Ving.	10	33	Scorp.	11	High winds
22	b	Ember week	11	30		23	☉ Apogon.
23	c	Wendur.	12	28	Sagit.	5	and cold so.
24	d	Ether	13	25		17	the season.
25	e	Urbanus	14	22		29	
26	f	Trinity Sund.	15	20	Capr.	12	☉ ☉ ♀.
27	g	Crafe. Trin.	16	17		24	
28	a	Monica	17	14	Aquar.	7	
29	b	K. Ch. 2. Rec.	18	11		20	☉ ♂ ♀.
30	c	Corpus Christi	19	8	Pisces	3	
31	d	Term begins	20	6		16	

Now in this pleasant month of May,
 The Earth is crown'd by th' goddess Flora,
 With divers colours rich and gay:
 And birds do welcome in Aurora.

1	4	22	7	38
2	4	21	7	39
3	4	19	7	41
4	4	17	7	43
5	4	16	7	44
6	4	14	7	46
7	4	12	7	48
8	4	11	7	49
9	4	9	7	51
10	4	8	7	52
11	4	6	7	54
12	4	5	7	55
13	4	3	7	57
14	4	2	7	58
15	4	1	7	59
16	4	0	8	0
17	3	19	8	1
18	3	18	8	2
19	3	17	8	3
20	3	16	8	4
21	3	15	8	5
22	3	14	8	6
23	3	13	8	7
24	3	12	8	8
25	3	11	8	9
26	3	10	8	10
27	3	9	8	11
28	3	8	8	12
29	3	7	8	13
30	3	6	8	14
31	3	5	8	14

May 1689

B

June hath xxx. days.

New moon the 7 day, 9 min. past 10 before noon.
 First quarter the 14 day, 52 min. past 1 after noon.
 Full moon the 22 day, 19 min. past 4 after noon.
 Last quarter the 30 day, 57 min. past 1 in the morn.

1	c	Alcomede	21	3	Aries	0	D ☿
2	f	1 after Trin.	22	0		14	△ h ☿.
3	b	Octab. Trin.	22	57		28	△ ☿ ☿.
4	a	Petrocius	23	54	Taur.	13	D Perigron.
5	b	Boniface	24	51		28	☿ ☿.
6	c	Artemid.	25	48	Gem.	13	Fire mode-
7	d	Paul Ep.	26	45		28	rate weather
8	e	Medardus	27	43	Canc.	13	at the begin-
9	f	2 after Trin.	28	40		27	ning.
10	b	Quind. Trin.	29	37	Leo	11	△ ☉ h.
11	a	S. Barnabas	0	34		25	☐ ☉ ☿.
12	b	Blandine	1	31	Virg.	8	Hot with
13	c	Cyprian	2	28		20	thunder.
14	d	Valerius	3	25	Libra	2	☐ ☿ ☿.
15	e	Vitus	4	22		14	D ☿.
16	f	3 after Trin.	5	19		26	△ ☿ ☿.
17	b	Tres Trin.	6	16	Scorp.	8	D Apogron.
18	a	Gerbasius	7	13		20	☐ h ☿.
19	b	Term ends	8	10	Sagit.	2	△ h ☿.
20	c	Regina	9	7		14	Windy and
21	d	Alban.	10	4		26	wet.
22	e	Achat. fast	11	1	Capr.	8	
23	f	4 after Trin.	11	58		21	Hot weather.
24	a	John Bapt.	12	56	Aquar.	4	
25	a	Elogius	13	53		16	△ ☿ ☿.
26	b	Jeremias	14	50	Pisces	0	
27	c	7 Sleepers	15	47		13	
28	d	Leo P. fast	16	44		26	
29	e	Peter Apo.	17	41	Aries	10	D ☿.
30	f	5 after Trin.	18	38		24	

When backward bent, Flies thy fiery sled
 With Genser, Leo and the Maid doth feed, (see)
 Th'earth cracks with heat, and th'summer crowns his Ge-
 With gilded Ears as yellow as his hair be.

1	3	46	8	14
2	3	45	8	15
3	3	45	8	15
4	3	45	8	15
5	3	44	8	16
6	3	44	8	16
7	3	44	8	16
8	3	43	8	17
9	3	43	8	17
10	3	43	8	17
11	3	43	8	17
12	3	43	8	17
13	3	43	8	17
14	3	43	8	17
15	3	43	8	17
16	3	44	8	16
17	3	44	8	16
18	3	44	8	16
19	3	45	8	15
20	3	45	8	15
21	3	45	8	15
22	3	46	8	14
23	3	46	8	14
24	3	46	8	14
25	3	47	8	13
26	3	48	8	13
27	3	48	8	13
28	3	49	8	11
29	3	50	8	10
30	3	51	8	9

June 1689.

July hath xxxi days.

New moon the 6 day, 29 min. past 7 after noon.
 First quarter the 14 day, 55 min. past 1 in the morn.
 Full moon the 22 day, 59 min. past 4 in the morn.
 Last quarter the 29 day, 8 min. past 6 in the morn.

1	B	Theobald	19	35	Taur.	8	
2	a	Visit. Mary	20	32		22	D Perigzon.
3	b	Cornelius	21	29	Gem	7	Hot weather
4	c	Elricus	22	27		22	and rain.
5	d	Arseim	23	24	Canc.	7	
6	e	Oct. Petr.	24	21		21	Δ h ♀.
7	f	6 after Trin.	25	18	Leo	5	
8	g	Demetrius	26	15		19	
9	a	Cyrellus	27	12	Virg.	3	Tempestuous
10	h	7 Barthzen	28	10		16	with thun-
11	c	John	29	7		28	der.
12	d	Sun in Leo	0	4	Libra	10	☿ ☉ h.
13	e	Margaret	1	1		22	D ♀.
14	f	7 after Trin	1	58	scorp.	4	
15	g	Swithin	2	56		16	High winds
16	a	Hilarius	3	5		28	D Apogzon.
17	b	Alexius	4	50	Sagit.	10	with storms
18	c	Maternus	5	47		22	of hail.
19	d	Dog days be	6	45	Capr.	4	Δ ♂ ♀.
20	e	Elis	7	42		17	
21	f	8 after Trin.	8	40	Aquar.	0	Δ ♀ ♀.
22	g	Mary Mag.	9	37		13	Very good
23	a	Apolline B.	10	34		26	seasonable
24	b	Christin. 129	11	32	Pisces	9	weather.
25	c	S. James Ap.	12	29		23	Δ h ♀.
26	d	Anna	13	27	Aries	7	D ♂.
27	e	Martha	14	2		21	
28	f	9 after Trin.	15	21	Taur.	5	* ♀ ♂.
29	g	Beatrice	16	19		19	D Perigzon.
30	a	Abdon	17	17	Gem.	3	☿ ☉ ♀.
31	b	German	18	14		17	

Though *Flora's* pride be much abated,
 Amends is made by *the Goddess Ceres*;
 Who now with corn comes fully fraught,
 And grasse; to whom the *Sithe-man* near is.

July 1689.
 The 2 day is Commencement
 Tuesday.

Cambridge Term ends the 5 day.

1	3	538	71
2	3	548	6
3	3	558	5
4	3	568	4
5	3	578	3
6	3	588	2
7	3	598	1
8	4	608	0
9	4	617	59
10	4	627	57
11	4	637	56
12	4	647	55
13	4	657	53
14	4	667	52
15	4	677	50
16	4	687	49
17	4	697	47
18	4	707	46
19	4	717	43
20	4	727	41
21	4	737	39
22	4	747	38
23	4	757	36
24	4	767	34
25	4	777	33
26	4	787	31
27	4	797	30
28	4	807	28
29	4	817	27
30	4	827	25
31	4	837	23

August hath xxxi days.

New moon the 5 day, 22 min. past 3 in the morn.
 First quarter the 12 day, 14 min. past 11 at night.
 Full moon the 20 day, 18 min. past 4 after noon.
 Last quarter the 27 day, 39 min. past 10 before noon.

1	c	Lammas day	19	13	Canc.	1	
2	d	Stephanus	20	9		26	Stormy with
3	e	Invent. S. eph	21	7	Leo	0	thunder.
4	f	10 after Trin.	22	5		14	
5	g	Fest. Petri	23	2		27	
6	a	Transl. Christi	23	59	Virgo	10	♂ ♀ ♂.
7	b	Constat.	24	57		23	Not very hot
8	c	Radulfus	25	55	Libra	6	now.
9	d	Remanus	26	53		18	D U.
10	e	Laurence	27	51	Scorp.	0	
11	f	11 after Trin.	28	49		12	D Apogon.
12	g	Clare Virg.	29	47		24	
13	a	Sun in Virgo	0	45	Sagit.	26	Cloudy but
14	b	Bertram	1	43		18	* ☉ ♀.
15	c	Assumpt. Mary	2	41	Capr.	0	temperate as
16	d	Rochus	3	39		12	to hear.
17	e	Hammer	4	37		25	Δ ☉ ♂.
18	f	12 after Trin.	5	35	Aquar.	8	
19	g	Sebalduy	6	33		31	
20	a	Bernard	7	31	Pisces	5	
21	b	Ethanadus	8	29		19	
22	c	Symphoy.	9	27	Aries	3	D ♀.
23	d	Jachens fast	10	25		17	♂ ♀ ♂.
24	e	S. Bartholom.	11	24	Taur.	1	Windy and
25	f	13 after Trin.	12	22		15	turbulent
26	g	Freneus	13	20	Gem.	0	D Perigone
27	a	Dog days end	14	19		14	toward the
28	b	Augustine	15	17		28	Δ ♀ ♀
29	c	Decol. J. Bape.	16	15	Canc.	22	end.
30	d	Felts	17	14		26	Δ ♂ ♀
31	e	uthburg	18	13	Leo	29	

The Earth her fruit to man resigneth,
 The fithr and fickle naked make her,
 Thus left (her friend) the Sun declineth,
 And his warm rays do soon forsake her.

August 1689.

Sun rising.		Sun setting.	
1 4	38 7	2 1	24
2 4	39 7	21	21
3 4	41 7	19	19
4 4	43 7	17	17
5 4	44 7	16	16
6 4	46 7	14	14
7 4	48 7	12	12
8 4	50 7	10	10
9 4	52 7	8	8
10 4	54 7	6	6
11 4	56 7	4	4
12 4	58 7	2	2
13 5	0 7	0	0
14 5	2 5	58	58
15 5	4 6	56	56
16 5	6 6	54	54
17 5	8 6	52	52
18 5	10 6	50	50
19 5	12 6	48	48
20 5	14 6	46	46
21 5	16 6	44	44
22 5	18 6	42	42
23 5	20 6	40	40
24 5	22 6	38	38
25 5	24 6	36	36
26 5	26 6	34	34
27 5	28 6	32	32
28 5	30 6	30	30
29 5	32 6	28	28
30 5	34 6	26	26
31 5	36 6	24	24

September hath xxx days.

New moon the 3 day, 40 min. past 3 after noon.

First quarter the 11 day, 18 min. past 5 after noon.

Full moon the 19 day, 47 min. past 5 in the morn.

Last quarter the 25 day, 14 min. past 7 at night.

1	f	14 after Trin.	19	11	Leo	23	♂ ♀.
2	B	Seraphia	20	9	Virg.	6	Cold and
3	a	Euphem.	21	8		19	wet.
4	b	Chiodolus	22	6	Libra	2	D ☽.
5	c	Zachary	23	5		14	♂ ♀.
6	d	Magnus	24	4		26	More rain
7	e	Regina	25	2	Scorp.	5	may yet be
8	f	15 after Trin.	26	1		2	expected.
9	B	Soygon	27	0	Sagit.	2	D Apogron.
10	a	Mothesnes	27	59		14	
11	b	Theobold	28	58		26	
12	c	Cobias	29	57	Capr.	8	☽ ☽.
13	d	Sun in Libra	0 ≈ 56			20	High winds
14	e	Exalt. Crucis	1	54	Aquar.	3	and dry.
15	f	16 after Trin.	2	53		16	
16	B	Euphemus	3	52		29	Fine and
17	a	Lambert	4	52	Pisces	13	mild now.
18	b	Ember week	5	51		27	♂ ♀.
19	c	Januarius	6	50	Aries	12	
20	d	Fausta fast	7	49		27	
21	e	S. Matthew	8	48	Taur.	11	☽ ☽.
22	f	17 after Trin.	9	47		26	♂ ♀.
23	B	Elion	10	47	Gem.	10	D Perigron.
24	a	Rupert	11	46		25	Δ ☽.
25	b	Eleophas	12	45	Canc.	9	Boisterous
26	c	Cyprian	13	45		22	now with
27	d	Judith	14	44	Leo	6	rain.
28	e	Wenceslaus	15	43		19	
29	f	S. Michael	16	43	Virgo	2	Δ ☽.
30	B	Jerome	17	43		15	

Now set the Northern Pole forsketh :
 Makes days and nights of equal length :
 To cheer the South great hath he maketh :
 That now abares Cold gathers strength.

1	5	33	6	21
2	5	40	6	20
3	5	41	6	19
4	5	44	6	16
5	5	46	6	14
6	5	48	6	12
7	5	50	6	10
8	5	52	6	8
9	5	54	6	6
10	5	56	6	4
11	5	58	6	2
12	5	59	6	1
13	6	0	6	0
14	6	1	5	58
15	6	4	5	56
16	6	6	5	54
17	6	8	5	52
18	6	10	5	50
19	6	12	5	48
20	6	14	5	46
21	6	16	5	44
22	6	18	5	42
23	6	20	5	40
24	6	22	5	38
25	6	24	5	36
26	6	26	5	34
27	5	28	5	32
28	6	30	5	30
29	6	32	5	28
30	6	34	5	26

September 1689.

Starbridge Fair begins the 9 day.

October hath xxxi days.

New moon the 3 day, 56 min. past 6 in the morn.

First quarter the 11 day, at 11 before noon.

Full moon the 18 day, 40 min. after noon.

Last quarter the 25 day, 22 min. past 2 in the morn.

1	a	Remigius	18	42	Virgo	28	♂ ♂ ♀.
2	b	Leodegar	19	41	Libra	10	Gloomy and
3	c	Simplicius	20	42		22	♂ h ♀.
4	d	Franciscus	21	41	Scorp.	5	♂ ☉ ♀.
5	e	Ides	22	41		17	windy.
6	f	19 after Trin.	23	41		28	D Apogron.
7	g	Ides	24	40	Sagitt.	10	
8	a	Heligia	25	40		22	Fine pleasant
9	b	Dionysius	26	40	Capr.	4	weather.
10	c	Gibbon	27	40		16	* ♀ ♀.
11	d	Burchard	28	40		28	
12	e	Willfrid.	29	40	Aquar.	11	♂ ☉ ♂.
13	f	Sun in Scorpio	0	40		24	Windy and
14	g	K. Jam. 2 born	1	40	Pisces	7	☉ ♀ ♀.
15	a	Wedwig.	2	40		21	dry.
16	b	Gallus	3	40	Aries	4	D ♀.
17	c	Florent.	4	40		20	
18	d	S. Luke Evan.	5	40	Taur.	5	
19	e	Ptolomy	6	41		20	
20	f	21 after Trin.	7	41	Gem.	5	D Perigron.
21	g	Tres Mich.	8	41		20	♂ ☉ h.
22	a	Cordula	9	42	Cancr.	5	Cold rains
23	b	Term begins	10	42		19	and tempe-
24	c	Salome	11	42	Leo	3	stuous.
25	d	Crispine	12	43		16	
26	e	Amandus f.	13	43		29	Toward the
27	f	23 after Trin.	14	43	Virgo	12	end frost.
28	g	S. Sim. & Jude	15	44		25	
29	a	Menf. Mich.	16	44	Libra	7	
30	b	Abfalon	17	45		19	
31	c	Wolfgang fa.	18	45	Scorp.	1	* ♀ ♀.

Thick mists, and clouds, are now combining,

To darken *Sol's* weak oblique rays,

Who being far from us declining,

Cause cloudy, moist, cold, and thort days.

October 1689.

1	6	39	5	21
2	6	41	5	19
3	6	43	5	17
4	6	45	5	15
5	6	47	5	13
6	6	49	5	11
7	6	50	5	10
8	6	52	5	8
9	6	54	5	6
10	6	56	5	4
11	6	58	5	2
12	7	0	5	0
13	7	2	4	58
14	7	4	4	56
15	7	6	4	54
16	7	8	4	52
17	7	10	4	50
18	7	12	4	48
19	7	14	4	46
20	7	16	4	44
21	7	17	4	43
22	7	19	4	41
23	7	20	4	40
24	7	22	4	38
25	7	24	4	36
26	7	25	4	35
27	7	27	4	33
28	7	29	4	31
29	7	30	4	30
30	7	32	4	28
31	7	33	4	27

Cambridge Term begins the 10
day, and then the *Professors Lectures*
and *Scrutators* are chosen.

Magna Congressus, for Black
Assembly the 25 day.

November hath xxx. days.

New moon the 1 day, 36 min. past 11 in the morn.
 First quarter the 10 day, 36 min past 3 in the morn.
 Full moon the 16 day, 40 min. past 10 at night.
 Last quarter the 23 day, 23 min. past 5 at night.

1	d	All Saints	19	45	Scorp.	13	
2	e	All Souls	20	47		25	High winds
3	f	23 after Trin.	21	47	Sagit.	7	D Apogron.
4	g	Craft Anim.	22	48		19	☐ ☉ ☿.
5	a	Powder plot	23	49	Capr.	1	but a clear
6	b	Leonard	24	50		13	Air.
7	c	Willibald	25	50		25	* ☿ ☿.
8	d	Landtus	26	51	Aquar.	7	
9	e	Theobald	27	52		20	☿ ☿ ☿.
10	f	24 after Trin	28	53	Pisces	2	☐ ☿ ☿.
11	g	Martins Ep.	29	54		16	Wet weather.
12	a	Sun in Sagit.	02	54		29	D ☉.
13	b	Eugenia	1	55	Aries	13	
14	c	Frederic.	2	56		28	
15	d	Leopold	3	57	Taur.	13	Cold rain
16	e	Edmund	4	58		28	and snow.
17	f	25 after Trin.	5	59	Gem.	13	☐ ☉ ☿.
18	g	Octab. Mart.	7	0		27	D Perigron.
19	a	Elizabeth	8	1	Canc.	14	
20	b	Smos	9	2		18	
21	c	Oblat. Mary	10	3	Leo	12	Windy and
22	d	Cecilia	11	4		02	boisterous.
23	e	Clemens	12	5	Vi go	09	
24	f	26 after Trin.	13	7		22	
25	g	Quind. Mart.	14	8	Libra	4	D ☉.
26	a	Conradus	15	9		06	☐ ☿ ☿.
27	b	Agricola	16	10		18	Frosty wea-
28	c	Term ends	17	11	Scorp.	00	ther.
29	d	Saturnine f.	18	12		22	
30	e	S. Andrew	19	13	Sagit.	4	D Apogron.

Old Myems now his gray hairs shaking,
 Cloaths Trees and Herbs with fire and snows;
 A crystal crust o' th' waters making,
 When he with Charliss breath doth blow.

17	35	4	25
18	37	4	23
19	39	4	21
20	41	4	19
21	43	4	17
22	45	4	15
23	47	4	13
24	49	4	11
25	51	4	9
26	52	4	8
27	54	4	6
28	55	4	5
29	57	4	3
30	59	4	1
31	0	4	0
32	1	3	59
33	2	3	58
34	3	3	57
35	4	3	56
36	5	3	55
37	6	3	54
38	7	3	53
39	8	3	52
40	9	3	51
41	10	3	50
42	11	3	49
43	12	3	48
44	13	3	47
45	13	3	47
46	14	3	46

Sun-Setting.

Sun-Rising.

November 1689

The Vice-chancellor lays down
 his Office the 3 day.

December hath xxxi days.

New moon the 1 day, at 8 at night.
 First quarter the 9 day, 1 min. past 6 at night.
 Full moon the 16 day, 3 min. past 10 before noon.
 Last quarter the 23 day, 43 min. past 10 before noon.
 New moon the 31 day, 3 min. past 3 after noon.

1	f	Advent Sund.	20	14	Sagit.	16	
2	b	Candibus	21	16		28	Cold with
3	a	Calixtus	22	17	Capr.	10	snow.
4	b	Barbara	23	18		22	
5	c	Quintus	24	19	Aquar.	4	
6	d	Nicholas	25	21		17	Cloudy dark
7	e	Ignathus	26	22		20	Δ ⊙ δ.
8	f	2 lun. in Adv.	27	23	Pisces	12	weather and
9	b	Joachim	28	24		25	D ♀.
10	a	Miltiades	29	26	Aries	9	not very cold.
11	b	Sun in Capr.	27	27		21	
12	c	Valerius	1	28	Taur.	7	
13	d	Lucia Virg.	2	30		21	
14	e	Othlie	3	31	Gem.	6	D Perigzon.
15	f	3 lun. in Adv.	4	32		22	* ♀ δ.
16	b	O Sapiaentia	5	34	Canc.	7	
17	a	Gratian	6	35		22	Cold frosty
18	b	Ember week	7	36	Leo	7	weather with
19	c	Loth.	8	37		21	snow.
20	d	Amon fast	9	39	Virgo	5	
21	e	S. Thomas	10	40		18	
22	f	4 lun. in Adv.	11	41	Libra	0	D ♀.
23	b	Wigor	12	44		13	
24	a	St. E. Eb. f. R.	13	45		25	
25	b	Christmas day	14	46	Scorp.	7	* ♀ ♀.
26	c	S. Stephen	15	47		19	* ⊙ ♀.
27	d	S. John Evan.	16	48	Sagit.	1	Δ δ ♀.
28	e	H. Innocent	17	50		13	Apogzon.
29	f	1 after Christ.	18	51		24	Very good
30	b	Davib	19	52	Capr.	7	weather to
31	a	Sylvester	20	54		19	the end.

The Earth hath lost her beauty, the year's old
 The weather frosty, slabby, raw and cold
 All laid in sloth, and till cold months do end
Bacchus and Puleas must us both befriend.

Sun. Rising.		Sun. Setting.	
1	8	14	3
2	8	14	3
3	8	15	3
4	8	15	3
5	8	15	3
6	8	16	3
7	8	16	3
8	8	16	3
9	8	17	3
10	8	17	3
11	8	17	3
12	8	17	3
13	8	17	3
14	8	17	3
15	8	17	3
16	8	16	3
17	8	16	3
18	8	16	3
19	8	15	3
20	8	15	3
21	8	15	3
22	8	14	3
23	8	14	3
24	8	13	3
25	8	12	3
26	8	11	3
27	8	10	3
28	8	9	3
29	8	8	3
30	8	7	3
31	8	6	3

December 1689.

Cambridge Term ends the 16
 day.

Dove 1689.

A Regal Table in a more exact manner.

The Year, Month, and Day, (accounting the Year to be- gin Jan. 1.) wherein every K. and Q. of Eng. since the Conq. began their reign.			The number of Years, Months, & Days, that every K. and Q. reigned.			The num. of y. expired in this y. since they began to reign: as also since they ended.		
K. W. Conq.	1066	Octob. 14	15	7	11	m 22	d 23	
W. Rufus	1087	Sept. 8	2	7	1	m 18	d 461	W. Rufus
Henry	1100	August 15	7	4	m 11	d 519		Henry
Stephen	1135	Decem. 2	18	7	m 18	d 554		Stephen
Henry	1154	Octob. 25	34	7	m 1	d 555		Henry
Richard	1185	July 6	9	7	m 0	d 500		Richard
John	1199	April 6	17	7	m 0	d 468		John
Henry	1216	Octob. 19	56	7	m 0	d 473		Henry
Edward	1272	Nov. 16	14	7	m 6	d 47		Edward
Edward	1307	July 7	19	7	m 5	d 32		Edward
Edward	1327	Jan. 25	50	7	m 7	d 312		Edward
Richard	1377	June 21	11	7	m 14	d 150		Richard
Henry	1399	Sept. 29	13	7	m 1	d 176		Henry
Henry	1413	March 10	9	7	m 14	d 167		Henry
Henry	1422	Aug. 31	38	7	m 16	d 145		Henry
Edward	1461	March 4	12	7	m 8	d 136		Edward
Edward	1483	April 9	0	7	m 18	d 136		Edward
Richard	1483	June 22	2	7	m 5	d 104		Richard
Henry	1485	Aug. 22	23	7	m 14	d 180		Henry
Henry	1509	April 12	17	7	m 2	d 142		Henry
Edward	1547	Jan. 28	6	7	m 19	d 136		Edward
Q. Mary	1553	July 6	5	7	m 22	d 131		Q. Mary
Q. Elizab.	1558	Nov. 17	14	7	m 15	d 86		Q. Elizab.
James	1603	March 24	22	7	m 3	d 64		James
Charles	1625	March 27	22	7	m 3	d 40		Charles
Charles	1649	Jan. 30	36	7	m 7	d 4		Charles
James	1685	Febr. 6	Long live the King.					James

The use of the Table in Example.

King Henry 8 began his Reign in the year of Christ 1509. April 22. He Reigned 37 years, 10 months, and 2 days. It is since he began his Reign 180 years compleat the 22 of April this year 1689. Now to know the time since the end of his Reign, before his name standing on the right hand, you shall there find 142 years since he died, Jan. 28. And so of the rest.

Dove

Done 1689.
The latter part of this
A L M A N A C K
For the year of our
Lord God 1689:

Being y^e 1st after Easter-day or Leap-year.

When in are contained the Eclipses,
the Sun's entrance into the four Cardinal
Signs, A Table-Tide, the account of the
motions of the Earth, A Table of Festivals,
and Medals both *English* and *Roman*,
y^e 1st of *Roman* Coins, also Tables of
Reversion for Renewing and Purchasing
of the Leases of Cathedral Churches and
Colleges, with other usefull Things and
Tables.

*Quoniam videlicet Calendar, apud dignissimum
venerabilem & Excellentissimum fidei, ac sci-
entiarum, quod memores ejus aut filius beatus, quod
venerabilis ejus est, (Vol. 5, 1).*

C A M B R I D G E,
Printed by *John Hayes*, Printer to the
University, 1689.

Decr. 1619

Of the Eclipses this Year.

THIS Year there will be two Eclipses, and both of the Moon; day will be both visible, total, and partial.

The first of them happens on the 24 day of May, about 7 of the Clock at night, it is celebrated in the 15 degree of Libra, and will be above 23 degrees Eclipsed, it begins in the 12 Angle, being the House of sorrow, labour and imprisonment, and ends in the 10 Angle, which at the beginning thereof is in the Horoscope of Quintus, at last, and Mercury is in opposition to the Moon.

The second happens the 19 day of November, towards 9 of the Clock in the morning, it is celebrated in 7 degree of Aries, and will be above 23 degrees Eclipsed; it begins in the House of death, and endeth in the House of poverty, hunger and contention. Mercury opposes Saturn, and the 3 inferiours are in Opposition.

The Suns entrance into the four Cardinal Signs this Year.

He enters ♈, March the 9th day, 13 minutes past 7 at night, and then begins our Spring Quarter.

He enters ♋, June the 10th day, 41 minutes past 9 at night, and then begins our Summer Quarter.

He enters ♏, September the 12th day, 13 minutes past 2 afternoon, and then begins our Autumn.

He enters ♐, December the 11th day, 4 minutes past 9 in the morning, and then begins our Winter Quarter.

Of
SOME
HARD

A Table also by you may be had by one of highway at
many Havens in and about England, and how many
hours and minutes are to be used to the time of the
Moons coming to the Earth for the calls of high water,
and likewise what Moon makes a full sea at those
Havens.

[illegible][illegible]

IN the 5th Column you have the point of the Compass
to the which the Moon coming, maketh full Sea at
those Havens mentioned in the second Column, and in
the third Column are the hours and minutes to be added
to the time of the Moons setting. I shall make it plain
by an example.

Decr 1689.

The 24 of February, this year 1689. I would know at what hour it will be full Sea at London-bridge. First I find the Moon's age in the former part of the Almanack, (accounting it from the Change) to be 25 days old, which age I find at the bottom of the Tide-table, and under the same 25 hours, the time of the Moon coming to the South, then finding in the first Column that a South-west Moon makes full Sea at London, I add to her touching 3 hours 21 as is shewed in the 1st Column, and it makes 15 hours, from whence I take 14 for midnight and there remaine 3 hours in the morning, the time of full Sea at London-Bridge; also observe that when the Moon comes to the contrary (or North-east) point it is there full Sea again.

Arguments proving the motion of the Earth.

According to *Ptolomy*, the whole Heaven of the fixed stars is whirled about the Earth in a day, making its motion from East to West, the Earth according to him resting in the Center of the Universe: But according to *Copernicus*, the Earthy globe turns about its own axis from West to East, performing its revolution in 24 hours. *Ptolomy* also would have the Sun to run through the Zodiack in a year, but *Copernicus* rather thinks that our Earth performs its revolution under the Ecliptick in the same space of time. *Ptolomy* also says that the Moon performs her revolution in the Zodiack in a month, and *Copernicus* would have the Orb of the Moon to be carried by the Earth,

and

and her body also to perform her course in her own Circle.

Now notwithstanding these differences in the motions and descriptions of the Spheres, and heavenly bodies, yet are their appearances much the same, whether the Sun, Earth, or Fixed Stars do move or stand still. For altho' their motions, and formations in each System, are contrary to one another, yet do they differ no more among themselves, then the way from *Cambridge* to *London*, doth differ from the way from *London* to *Cambridge*; for altho' they that travel from *Cambridge* to *London*, goe contrary to them that travel from *London* to *Cambridge*, yet is the way the same: So the *Ptolemaic* and *Copernican* Spheres are contrary to one another, as to their Hypothesis, yet do they shew the same thing in the Heavens, there are the same appearances.

And seeing the appearances are the same, it may be required, why *Copernicus* rejecting the *Ptolemaic* Systeme, should go about to devise a new one of his own; the answer will be, that *Ptolemy* had respect only to the bare motion of the Heavens, but *Copernicus* did not only regard the motions but also the causes of them, and so hath built his Hypothesis upon substantial reasons, as in the sequel will appear.

The first argument which we shall alledge for the motion of the Earth shall be from the magnitude of the Spheres, taking it for granted that those Stars or Planets which are placed in lesser Spheres

Spheres do move more swiftly than those which
are placed in greater; which by observation is most
evident. For the Moon who is placed in the least of
all the Spheres performs her revolution in a month.
Mercury who is placed in a Sphere next greater per-
forms his revolution in 80 days; Venus who is in the
Sphere next above performs her revolution in nine
months; then the Sun on the Earth, in a year;
Mars in two years; Jupiter in 12 years; Saturn
(who is in the greatest Sphere) performs his re-
volution in 30 years; but the Sphere of the Fixed
Stars being almost infinitely higher than the Sphere
of Saturn, and so consequently so much greater,
either must move not at all, or else slowest of all;
so that it seems very absurd, to attribute the swiftest
motion to this Sphere, supposing it to complete its
revolution in a day or 24 hours; and this will be-
ter appear if you consider that the distance of the
Sun from the Earth, or the Earth from the Sun, is
but 9408 semidiameters of the Earth, but the di-
stance of the Sphere of the Fixed Stars from the
Sun is 1000000 of the same semidiameters, one
of which is usually reckoned to be 892 German
miles; so that the semidiameter of the Fixed Stars
will then be 8850729439 German miles, and the
circumference to 55628464617 of the same miles,
which divided by 24, gives 23178529692 Ger-
man miles for the Space which the Sphere of the
Fixed Stars runs in an hour, and in a minute
38630878 of the same miles; and in a moment or
the 60th part of a minute almost 643848 of the same
miles,

miles, which must be of such a prodigious swift-
ness that it is impossible that any solid body
should run the long such swift space in so little a
time. But the Circumference of the Earth is but
5400 German miles, which divided by 24, gives
225 of the same miles for the motion of the Earth
in an hour, and in a minute 3 $\frac{1}{2}$ of German miles
but in a moment, but the 16th part of one of these
miles, which is as swift as a bullet out of a Gun,
and so the motion hath a just and consistent pro-
portion to the time it moves in: So likewise to the
space in the motion of *Saturn*, the Circumference
of whose Sphere is supposed to be 8435200 German
miles, which divided by 24 gives 351466 $\frac{2}{3}$ of
the same miles for the motion of *Saturn* in an hour,
and the division continued by 60, you will find that
he moves then 930 German miles in a moment, or
the 60th part of a minute, the proportion of the
space he moves being so unequal to the time it
moves in, as cannot be imagined that a body should
move so swiftly, therefore we will conclude that
the diurnal motion, is not to be ascribed either
to the Sphere of the Fixed Stars, or to the Spheres
of *Saturn*, or to any other of the Spheres, but to
the Earth about its own axis, which moves but the
16th part of a German mile in a moment as was said
before, and therefore the motion of the Earth is
most agreeable to reason.

The second Argument for the Earths motion is
this, viz. that the motion of the Earth about its own
axis be not admitted, one and the same Sphere must

Decr. 1689.

move both East and West at the same time, but sup-
posing the diurnal conversion of the Earth about
its own axis, this absurdity will be taken away.
Altho according to the appearance of the Heavens,
they may seem so to do, yet is the diurnal mo-
tion, not to be attributed either to the Fixed Stars
or to the Planets, but to the Earth, for that moving
Eastward, doth cause us to think that the whole
Systeme of the Planets, and Sphere of the Fixed
Stars do move Westward, whereas indeed every
Sphere has but one motion really, and that is from
West to East, the other motion from East to West
is only so in appearance, caused by the diurnal mo-
tion of the Earth from West to East; like as those
which are sailing from West to East, those things
which are without the Ship upon land, or upon
the Sea do seem to go the contrary way, altho
perhaps they may not move at all, or else the same
way. There be several other arguments, but I have
not here room to produce them. As for the pon-
derosity of the Globe of the Earth, which is
brought as an objection against its motion, that
doth rather prove the motion thereof, for things
that are ponderous will not rest in the Air with-
out motion.

Of

Of Weights and Measures.

Of Dry Weight.

24 Grains	1 Pennyweight	16 Drachms	1 Ounce
20 Pennyweights	1 Ounce	16 Drachms	1 Ounce
13 Ounces	1 Pound Troy	16 Ounces	1 Pound

Of Apothecaries Weight, 2 Pennyweights is equal to 14 Ounces, 18 Pennyweights (Troy) by which Weights is weighed any thing which beareth the name of Grained in this kind of weight.

16 Drachms	1 Ounce
16 Ounces	1 Pound

25 Pound	1 Quarter
4 Quarters	1 Half
2 Half	1 Hundredweight

Of Liquid Measure.

2 Hells	1 Quart
4 Quarts	1 Peck
4 Pecks	1 Gallon

10 Gallons	1 Firkin of Ale
10 Gallons	1 Firkin of Beer

10 Gallons	1 Firkin of Salmon or Bels
2 Firkins	1 Kilderkin
2 Kilderkins	1 Barrel
4 Gallons	1 Tierce of Wine
63 Gallons	1 Hogshead
2 Hogsheads	1 pipe, Butt

Dry Measure.

2 Gallons	1 Peck
4 Pecks	1 Bushel
4 Pecks	1 Quarter
4 Quarters	1 Chaldier
5 Quarters	1 Wey

Land Measure.

12 Inches	1 Foot
3 Feet	1 Yard
3 Feet 6 Inches	1 Ell
5 Yards and 2 Feet	1 Fathom
40 Poles	1 Pole
3 Furlongs	1 Furlong
5 Furlongs	1 Eng. mile

Cloth Measure.

1 pole in breadth and 40 in length make 2 Reed of Land.	4 Quarters	1 Quarter
4 Reeds make an Acre, which contains 160 square pole.	5 Quarters	1 Ell
	3 Quarters	1 Ell & 1 half

The value of Foreign Coins in English money.

Weights & Measures mentioned in Scripture.

	lb.	sh.	d.	
Hebrew Talent in Gold	4500	00	00	A Talent in weight
Hebrew Talent in Silver	125	00	00	2 of an Ounce.
Alexandrian Talent	375	00	00	Shekel of the San-
Egyptian Talent	300	00	00	Guards 20 ounce.
Babylonian Talent	218	15	00	A Talent 62 p. undt.
Attic Talent	187	10	00	A Pound 12 ounce.
Scherpen of Rome	7	16	3	A Mules burthen
A Shekel	0	2	6	200 weight.
Argenteus	0	2	6	A Log half 2 pint.
A Denarius	0	0	7	A Hin 3 quarts.
A Rubble	0	13	4	A Bath 2 Gallons 3
A Sultany	0	7	6	quarts.
A Ducat	0	6	8	A Pot or Sextary, 2
A French Crown	0	6	6	pint and an half.
A Xerke	0	6	0	A Measure or Cho-
A Six Dollar	0	4	8	nix, 2 quart.
A Florin	0	3	9	A Firkin 4 Gallons
A Frank	0	2	0	and an half.
A Livre de Paris	0	1	6	A Kab, 2 quart.
A Golden	0	2	0	An Omer 3 pints &
A Spanish Real	0	0	8	an half.
A Sou	0	0	19	A Measure or Seah,
A Parthian Asper	0	0	19	2 gallon & an h. l.
A Maravidis	0	0	09	An Ephah half 2 Bu-
				shel and Pottle.
				Half Homer or La-
				thec, 7 bush. & quart.

5 Stivers are equal to 5 pence Sterling, 6 Stivers are a Flemish Shilling, 20 Stivers or Solds Turnois make a Guilder, and 120 Stivers make a Livre or pound Flemish, which is reckoned equal to 12 shillings Sterling. The Ducatoons are equal to 10 Dutch shillings, or 60 Stivers. Paratoons are equal to 48 Stivers or 8 Dutch shillings, 8 Dons make a Stiver. The weight called a Quintal is 104 pound, in some places 108.

DWY-102A

A plain and entire Table shewing the true Lottery, and upon any Sale of Money from the said Lottery, a Hundred Pounds for a Year or under, after the Rate of Six Pounds in the Hundred.

[illegible]

And the Principal in the first Column, and in the

Decr 1689.

Tables of Reversion, for Renewing a Lease of
20 years, according to any number of years
within that time Lapsed, at 12^{lb} 6^d.
at 11^{lb} 11^s 8^d, and at 6^{lb} per cent.

Years Lapsed	12 ^{lb} 6 ^d p. c.				11 ^{lb} 11 ^s 8 ^d p. c.				at 6 ^{lb} p. c.			
	Years	Quarters	Months	Weeks	Years	Quarters	Months	Weeks	Years	Quarters	Months	Weeks
1	0	0	1	0	0	0	1	1	0	1	0	3
2	0	0	2	2	0	0	2	3	0	2	1	6
3	0	1	1	0	0	1	1	2	0	3	2	3
4	0	1	2	3	0	2	0	1	1	1	1	2
5	0	2	1	2	0	2	3	2	1	3	0	0
6	0	3	0	2	0	3	2	2	2	0	2	0
7	1	0	0	0	1	0	1	2	2	2	1	2
8	1	0	2	3	1	1	1	1	3	0	1	0
9	1	1	2	3	1	2	1	2	3	1	1	0
10	1	3	0	0	1	3	2	0	4	0	1	1
11	2	0	1	0	2	1	0	0	4	2	2	0
12	2	1	2	0	2	2	1	2	5	1	0	1
13	2	3	0	2	3	0	0	2	5	3	1	3
14	3	1	0	0	3	2	0	0	6	2	0	3
15	3	3	0	0	4	0	0	1	7	1	0	0
16	4	1	0	3	4	2	1	1	8	0	0	0
17	4	3	2	0	5	1	0	0	8	3	0	2
18	5	2	1	3	5	3	2	2	9	2	1	2
19	6	1	2	0	6	3	0	1	10	2	0	1
20	7	1	0	3	7	2	2	0	11	1	2	3

The first part of this Table is calculated at 12^{lb} 6^d per cent. so that the time for renewing 7 years Lapsed is just 1 years value. The second part is calculated at 11^{lb} 11^s 8^d per cent. (which is the rate that is observed in a Lease of 21 years, when 1 years

Tables of Reversion for Renewing a Lease of
10 Years according to any number of years
within that term Lapsed at 17th 5 lb.
at 10 lb. and at 6 lb. per cent.

		17 th 5 lb. p. c.		10 lb. p. c.		6 lb. p. c.	
Years Lapsed	The time for Renewing	Years	Months	Weeks	Years	Months	Weeks
		1	0	1	0	0	0
2		0	2	0	0	1	2
3		0	1	0	1	0	3
4		1	0	0	1	0	1
5		1	1	1	2	1	1
6		1	3	0	2	3	0
7		2	1	0	3	2	1
8		2	3	1	4	1	3
9		3	3	2	5	0	3
10		4	2	0	6	0	1
Total value		10	4	1	13	1	1

value is to be given for 7 years (run out) so that the fine for renewing 7 years Lapsed according to this rate of interest, is 1 year, 1 month, and 2 week's value: The third part of the Table being calculated at 6 lb. per cent. the fine for renewing 7 years Lapsed is 2 years, 2 quarters, 1 month, and 2 week's value; and so as the rate of interest increaseth, the fines both for Renewing and Purchasing increaseth.

In a Lease for 10 years, they usually give 1 years value for 4 years Lapsed, and then the Tenant hath 17 lb. 5 sh. per cent. profit for his money, as the Table sheweth; but if he gives 1 year, 3 quarters, 0 months, 2 week's value to renew the same, he hath but 10 lb. per cent. &c. So the value of a Lease for 10 years at 17 lb. 5 sh. per cent. is 4 years 3 quarters, 0 months, and 1 week's purchase; but at 6 lb. per cent.

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least, it is worth above 7 years purchase, and 10 lb. per cent. is a good above 6 years value.

The Table for Reversion of 1 lb. is thus, suppose an Estate is mortgaged for 20 years whose real value or sumple is 100 lb. then what is the Reversion thereof worth after 10 years, for answer I look against 20 y. and find that the Reversion of 1 lb. is but 7 lb. then I say if 1 lb. give 7 lb. what will 100 lb. give? Answer, 700 lb. which is the worth of the Reversion required at 6 per cent.

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DECEMBER 1689.

Hereford	Hereford	1	8	170	1
Oxford	Oxford	1	13	210	1
Gloucester	Gloucester	1	24	280	1
Northampton	Northampton	1	13	285	1
Bedford	Bedford	0	7	48	1
Derby	Derby	1	19	248	1
S. Devon	Exeter	0	8	144	1
	Exmouth	0	8	87	1
	Exmouth	0	4	64	1
	Exmouth	0	4	61	1
	Exmouth	0	3	52	1
Leicester	Gloucester part.	0	8	118	1
	Gloucester	0	7	127	1
	Gloucester	0	6	47	1
S. Wales	Denbigh	0	4	57	1
	Flint	0	2	28	1
	Flint	0	3	37	1
Bangor	Gwynedd	0	6	68	1
	Anglesey	0	2	74	1

The Province of York.

York Arch-Bis.	Nottingham	0	9	168	1
Chester	York part.	1	48	563	29
	Chester	1	13	68	4
	Lancaster	0	25	61	14
	Flint part.	0			
	Denbigh part.	0			
Carlisle	Cumberland part.	1	15	58	6
	Westmorland	0	8	26	4
Durham	Durham	1	6	118	4
	Northumberl.	0	6	46	8

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